

PCT09

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/868,753

DATE: 07/11/2001
 TIME: 11:02:40

Input Set : A:\sequence.txt
 Output Set: N:\CRF3\07112001\I868753.raw

#1
 4/Seq
ENTERED

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3 <110> APPLICANT: Murphy, John R.
4      O'Lear, Edward
5      Harrison, Robert J.
7 <120> TITLE OF INVENTION: Vaccine Compositions
9 <130> FILE REFERENCE: AMSC 3.3-001
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/868,753
C--> 12 <141> CURRENT FILING DATE: 2001-06-21
14 <150> PRIOR APPLICATION NUMBER: PCT/US00/29231
15 <151> PRIOR FILING DATE: 2000-10-23
17 <160> NUMBER OF SEQ ID NOS: 36
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 24
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
29 <400> SEQUENCE: 1
30 accagatctg ccgaaaaact tcga                      24
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 25
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
41 <400> SEQUENCE: 2
42 accagatctc cgcctttagt attta                      25
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 27
47 <212> TYPE: DNA
48 <213> ORGANISM: Unknown Organism
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Description of Unknown Organism: Native tox
52      operator
54 <400> SEQUENCE: 3
55 ataattagga tagctttacc taattat                      27
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 19
60 <212> TYPE: DNA
61 <213> ORGANISM: Unknown Organism
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Description of Unknown Organism: DNA target site
66 <400> SEQUENCE: 4
67 gtaggttagg ctaacctat                      19
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 25
72 <212> TYPE: DNA

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73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Description of Artificial Sequence:
77 Consensus-binding sequence
79 <220> FEATURE:
80 <221> NAME/KEY: modified_base
81 <222> LOCATION: (1)..(25)
82 <223> OTHER INFORMATION: "n" represents variable bases
84 <400> SEQUENCE: 5
85 ananttaggn tagnctannc tnnnn 25
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 19
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence: Variant DNA
96 <400> SEQUENCE: 6
97 twaggttags ctaacctwa 19
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 230
102 <212> TYPE: PRT
103 <213> ORGANISM: Mycobacterium tuberculosis
105 <400> SEQUENCE: 7
106 Met Asn Glu Leu Val Asp Thr Thr Glu Met Tyr Leu Arg Thr Ile Tyr
107 1 5 10 15
109 Asp Leu Glu Glu Glu Gly Val Thr Pro Leu Arg Ala Arg Ile Ala Glu
110 20 25 30
112 Arg Leu Asp Gln Ser Gly Pro Thr Val Ser Gln Thr Val Ser Arg Met
113 35 40 45
115 Glu Arg Asp Gly Leu Leu Arg Val Ala Gly Asp Arg His Leu Glu Leu
116 50 55 60
118 Thr Glu Lys Gly Arg Ala Leu Ala Ile Ala Val Met Arg Lys His Arg
119 65 70 75 80
121 Leu Ala Glu Arg Leu Leu Val Asp Val Ile Gly Leu Pro Trp Glu Glu
122 85 90 95
124 Val His Ala Glu Ala Cys Arg Trp Glu His Val Asn Ser Glu Asp Val
125 100 105 110
127 Glu Arg Arg Leu Val Lys Val Leu Asn Asn Pro Thr Thr Ser Pro Phe
128 115 120 125
130 Gly Asn Pro Ile Pro Gly Leu Val Glu Leu Gly Val Gly Pro Glu Pro
131 130 135 140
133 Gly Ala Asp Asp Ala Asn Leu Val Arg Leu Thr Glu Leu Pro Ala Gly
134 145 150 155 160
136 Ser Pro Val Ala Val Val Arg Gln Leu Thr Glu His Val Gln Gly
137 165 170 175
139 Asp Ile Asp Leu Ile Thr Arg Leu Lys Asp Ala Gly Val Val Pro Asn
140 180 185 190
142 Ala Arg Val Thr Val Glu Thr Thr Pro Gly Gly Gly Val Thr Ile Val
143 195 200 205

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145 Ile Pro Gly His Glu Asn Val Thr Leu Pro His Glu Met Ala His Ala
146      210                      215                      220
148 Val Lys Val Glu Lys Val
149 225                      230
152 <210> SEQ ID NO: 8
153 <211> LENGTH: 223
154 <212> TYPE: PRT
155 <213> ORGANISM: Corynebacterium diphtheriae
157 <400> SEQUENCE: 8
158 Met Lys Asp Leu Val Asp Thr Thr Glu Met Tyr Leu Arg Thr Ile Tyr
159   1                      5                      10                      15
161 Glu Leu Glu Glu Glu Gly Val Thr Pro Leu Arg Ala Arg Ile Ala Glu
162                      20                      25                      30
164 Arg Leu Glu Gln Ser Gly Pro Thr Val Ser Gln Thr Val Ala Arg Met
165                      35                      40                      45
167 Glu Arg Asp Gly Leu Val Val Val Ala Ser Asp Ser Leu Gln Met Thr
168                      50                      55                      60
170 Pro Thr Gly Arg Thr Leu Ala Thr Ala Val Met Arg Lys His Arg Leu
171  65                      70                      75                      80
173 Ala Glu Arg Leu Leu Thr Asp Ile Ile Gly Leu Asp Ile Asn Lys Val
174                      85                      90                      95
176 His Asp Glu Ala Cys Arg Trp Glu His Val Met Ser Asp Glu Val Glu
177                      100                     105                     110
179 Arg Arg Leu Val Lys Val Lys Asp Val Ser Arg Ser Pro Phe Gly Asn
180                      115                     120                     125
182 Pro Ile Pro Gly Leu Asp Glu Leu Gly Val Gly Asn Ser Asp Ala Ala
183                      130                     135                     140
185 Ala Pro Gly Thr Arg Val Ile Asp Ala Ala Thr Ser Met Pro Arg Lys
186 145                      150                      155                      160
188 Val Arg Ile Val Gln Ile Asn Glu Ile Phe Gln Val Glu Thr Asp Gln
189                      165                      170                      175
191 Phe Gln Leu Leu Asp Ala Asp Ile Arg Val Gly Ser Glu Val Glu Ile
192                      180                      185                      190
194 Val Asp Arg Asp Gly His Ile Thr Leu Ser His Asn Gly Lys Asp Val
195                      195                      200                      205
197 Glu Leu Leu Asp Asp Leu Ala His Thr Ile Arg Ile Glu Glu Leu
198                      210                      215                      220
201 <210> SEQ ID NO: 9
202 <211> LENGTH: 174
203 <212> TYPE: PRT
204 <213> ORGANISM: Staphylococcus epidermitis
206 <400> SEQUENCE: 9
207 Met Thr Val Ser Cys Pro Pro Pro Ser Thr Ser Glu Arg Glu Glu Gln
208   1                      5                      10                      15
210 Ala Arg Ala Leu Cys Leu Arg Leu Leu Thr Ala Arg Ser Arg Thr Arg
211                      20                      25                      30
213 Ala Glu Leu Ala Gly Gln Leu Ala Lys Arg Gly Tyr Pro Glu Asp Ile
214                      35                      40                      45
216 Gly Asn Arg Val Leu Asp Arg Leu Ala Ala Val Gly Leu Val Asp Asp

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217      50      55      60
219 Thr Asp Phe Ala Glu Gln Trp Val Gln Ser Arg Arg Ala Asn Ala Ala
220 65      70      75      80
222 Lys Ser Lys Arg Ala Leu Ala Ala Glu Leu His Ala Lys Gly Val Asp
223      85      90      95
225 Asp Asp Val Ile Thr Thr Val Leu Gly Gly Ile Asp Ala Gly Ala Glu
226      100      105      110
228 Arg Gly Arg Ala Glu Lys Leu Val Arg Ala Arg Leu Arg Arg Glu Val
229      115      120      125
231 Leu Ile Asp Asp Gly Thr Asp Glu Ala Arg Val Ser Arg Arg Leu Val
232      130      135      140
234 Ala Met Leu Ala Arg Arg Gly Tyr Gly Gln Thr Leu Ala Cys Glu Val
235 145      150      155      160
237 Val Ile Ala Glu Leu Ala Ala Glu Arg Glu Arg Arg Arg Val
238      165      170
241 <210> SEQ ID NO: 10
242 <211> LENGTH: 225
243 <212> TYPE: PRT
244 <213> ORGANISM: Mycobacterium leprae
246 <400> SEQUENCE: 10
247 Met Asn Asp Leu Val Asp Thr Thr Glu Met Tyr Leu Arg Thr Ile Tyr
248 1      5      10      15
250 Asp Leu Glu Glu Gly Ile Val Thr Pro Leu Arg Ala Arg Ile Ala
251      20      25      30
253 Glu Arg Pro Thr Val Ser Gln Thr Val Ser Arg Met Glu Arg Asp Gly
254      35      40      45
256 Leu Leu Arg Val Ala Gly Asn Arg His Leu Glu Leu Thr Thr Lys Gly
257      50      55      60
259 Arg Ala Met Ala Ile Ala Val Met Arg Lys His Arg Leu Ala Glu Arg
260 65      70      75      80
262 Leu Leu Val Asp Val Ile Gly Leu Pro Trp Glu Glu Val His Ala Glu
263      85      90      95
265 Ala Cys Arg Trp Glu His Val Met Ser Glu Asp Val Glu Arg Arg Leu
266      100      105      110
268 Ile Lys Val Leu Asn Asn Pro Thr Thr Ser Pro Phe Gly Asn Pro Ile
269      115      120      125
271 Pro Gly Leu Leu Asp Leu Gly Ala Gly Pro Asp Ala Ser Ala Ala Asn
272      130      135      140
274 Ala Lys Leu Val Arg Leu Thr Glu Leu Pro Ser Gly Ser Pro Val Ala
275 145      150      155      160
277 Val Val Val Arg Gln Leu Thr Glu His Val Asp Asp Ile Asp Leu Ile
278      165      170      175
280 Thr Arg Leu Lys Asp Thr Gly Val Val Pro Asn Ala Arg Val Thr Val
281      180      185      190
283 Glu Thr Ser Pro Ala Gly Asn Val Ile Ile Ile Ile Pro Gly His Glu
284      195      200      205
286 Asn Val Thr Leu Pro His Glu Met Ala His Ala Val Lys Val Glu Lys
287      210      215      220
289 Val

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290 225
293 <210> SEQ ID NO: 11
294 <211> LENGTH: 230
295 <212> TYPE: PRT
296 <213> ORGANISM: Mycobacterium tuberculosis
298 <400> SEQUENCE: 11
299 Met Asn Glu Leu Val Asp Thr Thr Glu Met Tyr Leu Arg Thr Ile Tyr
300   1          5          10          15
302 Asp Leu Glu Glu Glu Gly Val Thr Pro Leu Arg Ala Arg Ile Ala Glu
303          20          25          30
305 Arg Leu Asp Gln Ser Gly Pro Thr Val Ser Gln Thr Val Ser Arg Met
306          35          40          45
308 Glu Arg Asp Gly Leu Leu Arg Val Ala Gly Asp Arg His Leu Glu Leu
309          50          55          60
311 Thr Glu Lys Gly Arg Ala Leu Ala Ile Ala Val Met Arg Lys His Arg
312   65          70          75          80
314 Leu Ala Glu Arg Leu Leu Val Asp Val Ile Gly Leu Pro Trp Glu Glu
315          85          90          95
317 Val His Ala Glu Ala Cys Arg Trp Glu His Val Met Ser Glu Asp Val
318          100         105         110
320 Glu Arg Arg Leu Val Lys Val Leu Asn Asn Pro Thr Thr Ser Pro Phe
321          115         120         125
323 Gly Asn Pro Ile Pro Gly Leu Val Glu Leu Gly Val Gly Pro Glu Pro
324          130         135         140
326 Gly Ala Asp Asp Ala Asn Leu Val Arg Leu Thr Glu Leu Pro Ala Gly
327  145         150         155         160
329 Ser Pro Val Ala Val Val Val Arg Gln Leu Thr Glu His Val Gln Gly
330          165         170         175
332 Asp Ile Asp Leu Ile Thr Arg Leu Lys Asp Ala Gly Val Val Pro Asn
333          180         185         190
335 Ala Arg Val Thr Val Glu Thr Thr Pro Gly Gly Gly Val Thr Ile Val
336          195         200         205
338 Ile Pro Gly His Glu Asn Val Thr Leu Pro His Glu Met Ala His Ala
339          210         215         220
341 Val Lys Val Glu Lys Val
342 225          230
345 <210> SEQ ID NO: 12
346 <211> LENGTH: 233
347 <212> TYPE: PRT
348 <213> ORGANISM: Mycobacterium smegmatis
350 <400> SEQUENCE: 12
351 Met Asn Asp Leu Val Asp Thr Thr Glu Asn Tyr Leu Arg Thr Ile Tyr
352   1          5          10          15
354 Asp Leu Glu Glu Glu Gly Val Val Pro Leu Arg Ala Arg Ile Ala Glu
355          20          25          30
357 Arg Leu Asp Gln Ser Gly Pro Thr Val Ser Gln Thr Val Ser Arg Met
358          35          40          45
360 Glu Arg Asp Gly Leu Leu His Val Ala Gly Asp Arg His Leu Glu Leu
361          50          55          60

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VERIFICATION SUMMARY

DATE: 07/11/2001

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TIME: 11:02:41

Input Set : A:\sequence.txt

Output Set: N:\CRF3\07112001\I868753.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5